***Standard***: C.C.2.1.4.B.1 Apply place-value concepts to show an understanding of multidigit whole numbers

***Practice Standard***:

Standard 2. Reason abstractly and quantatively;

Standard 3: Construct viable arguments and critique the reasoning of others.

Standard 6: Attend to precision.

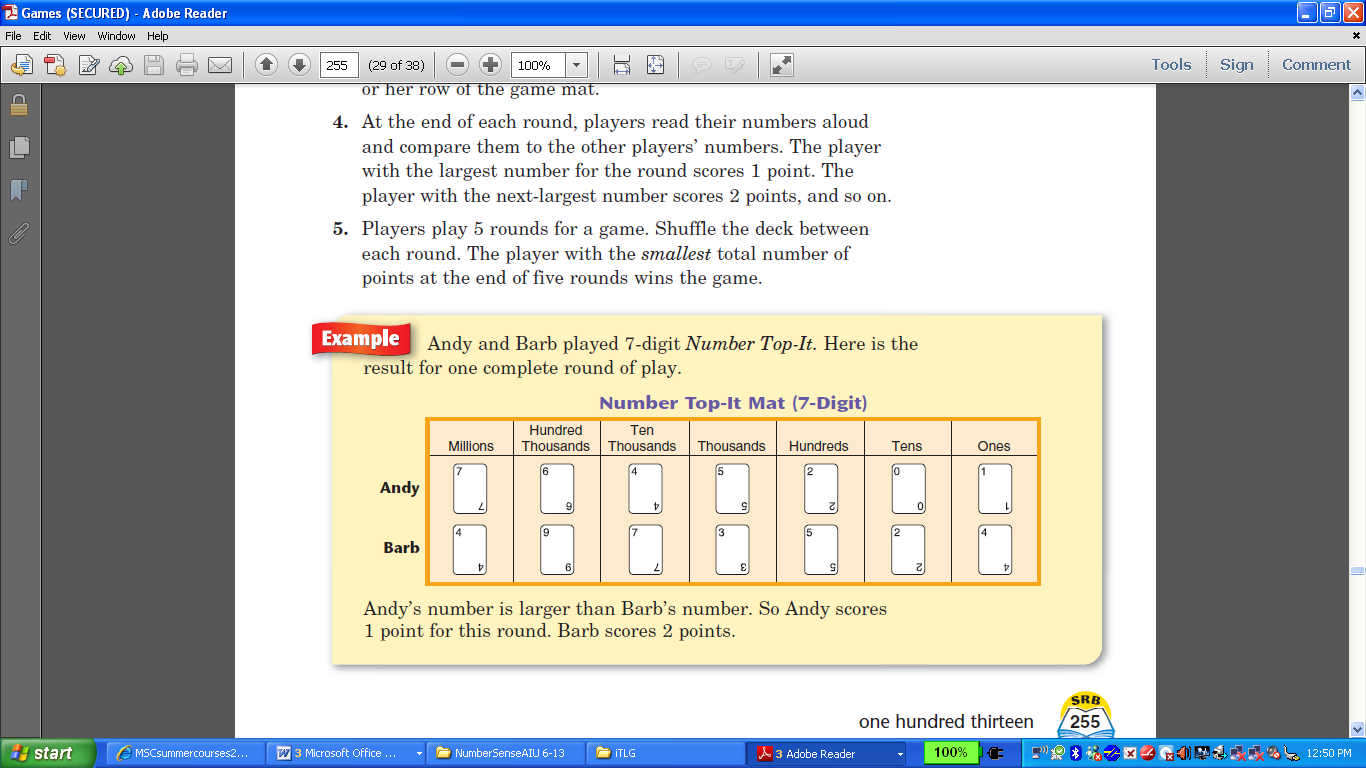
***Game***: “Number Top-It (7-Digit Numbers)” Suggested for grade 4-5, but it can be adapted for other grades

*Source:* This game is from *Everyday Mathematics* *Student Reference Book* p.255

Skill: Comparing Numbers (Place Value)

Object of the Game: To make the largest numbers possible

Materials: number cards 0-9 (4 of each); 1 Number Top-It Mat (7-Digit)



Players: 2 to 5

Directions:

1. Each player draws 4 blank lines on a sheet of paper to record the numbers that come up on the rolls of the die.
2. Each player uses one row of boxes on the place-value game mat.
3. In each round, players take turns turning over the top card from the deck and placing it on any one of their empty boxes. Each player takes a total of 7 turns, and places 7 cards on his or her row of the game mat.
4. At the end of each round, players read their numbers aloud and compare them to the other players’ numbers. The player with the largest number for the round scores 1 point. The player with the next-largest number scores 2 points, and so on.
5. Players play 5 rounds for a game. Shuffle the deck between each round. The player with the ***smallest*** total number of points at the end of five rounds wins the game.

***What questions you will ask as students are engaged in the activity to surface the mathematics***?

* How did you decide where to place the on each turn?Why did you put ­­your digit in that place? *(Why did you do that?)*
* What helped you to make the largest number? What strategies worked for you?
* What prevented you from making the largest number? What strategies kept you from winning?
* How do you know your number is the larger number? What do you need to pay attention to do determine which number is the largest or to compare the numbers?
* What strategies help you to compare the numbers?
* What helps you to read correctly the 7-digit numbers?
* Does that make sense?
* Why is that particular move a good choice?
* How do you know if something is not a good choice?
* Does this game require more skill or more “luck” (a game of chance)? Why do you think that? Explain your reason(s).